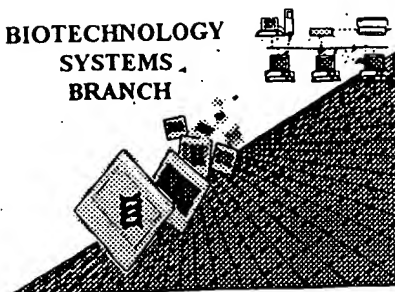


## **RAW SEQUENCE LISTING** **ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09 700 158

Source: OIPE

Date Processed by STIC: 08/15/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/700758

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ Wrapped Nucleics  
Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 ☐ Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ☐ Misaligned Amino  
Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 ☐ Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 ☐ Variable Length  
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 ☐ PatentIn 2.0  
"bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s). Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 ☐ Skipped Sequences  
(OLD RULES)  
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 ☐ Skipped Sequences  
(NEW RULES)  
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 ☐ Use of n's or Xaa's  
(NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 ☒ Invalid <213>  
Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ☐ Use of <220>  
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 ☐ PatentIn 2.0  
"bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 ☐ Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,158

DATE: 08/15/2001

TIME: 07:36:46

Input Set : A:\Seq.txt

Output Set: N:\CRF3\08132001\I700158.raw

Does Not Comply  
Corrected Diskette Needed*see pages 1 and 2*

3 <110> APPLICANT: BOWNESS, RACHEL  
 4 MCMICHAEL, PAUL  
 5 JAMES, ANDREW  
 7 <120> TITLE OF INVENTION: NOVEL MOLECULE AND DIAGNOSTIC METHOD  
 9 <130> FILE REFERENCE: P02077US0/10025595  
 11 <140> CURRENT APPLICATION NUMBER: 09/700,158  
 12 <141> CURRENT FILING DATE: 2000-11-10  
 14 <150> PRIOR APPLICATION NUMBER: PCT/GB9901481  
 15 <151> PRIOR FILING DATE: 1999-05-11  
 17 <160> NUMBER OF SEQ ID NOS: 9  
 19 <170> SOFTWARE: PatentIn version 3.0  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 9  
 23 <212> TYPE: PRT  
 24 <213> ORGANISM: INFLUENZA  
 26 <400> SEQUENCE: 1  
 28 Ser Arg Tyr Trp Ala Ile Arg Thr Arg  
 29 1 5  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 10  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: HIV  
 36 <400> SEQUENCE: 2  
 38 Lys Arg Trp Ile Ile Met Gly Leu Asn Lys  
 39 1 5 10  
 41 <210> SEQ ID NO: 3  
 42 <211> LENGTH: 17  
 43 <212> TYPE: PRT  
 C--> 44 <213> ORGANISM: ARTIFICIAL PEPTIDE ✓  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: misc\_feature  
 48 <222> LOCATION: (1)..(17)  
 49 <223> OTHER INFORMATION: Biotinylation Sequence ✓  
 52 <400> SEQUENCE: 3  
 54 Gly Ser Leu His His Ile Leu Asp Ala Gln Lys Met Val Trp Asn His  
 55 1 5 10 15  
 57 Arg  
 59 <210> SEQ ID NO: 4  
 60 <211> LENGTH: 9  
 61 <212> TYPE: PRT  
 62 <213> ORGANISM: CMV (HLA-A2 CMV)  
 64 <400> SEQUENCE: 4  
 66 Asn Leu Val Pro Met Val Ala Thr Val  
 67 1 5  
 69 <210> SEQ ID NO: 5  
 70 <211> LENGTH: 26  
 71 <212> TYPE: DNA

Errored. The appropriate 213 response  
 is Artificial Sequence

The types of errors shown exist throughout the Sequence Listing. Please check  
 subsequent sequences for similar errors.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,158

DATE: 08/15/2001

TIME: 07:36:46

Input Set : A:\Seq.txt

Output Set: N:\CRF3\08132001\I700158.raw

C--> 72 <213> ORGANISM: ARTIFICIAL ✓  
 75 <220> FEATURE:  
 76 <221> NAME/KEY: misc\_feature  
 77 <222> LOCATION: (1)..(26)  
 78 <223> OTHER INFORMATION: DNA primer ✓  
 81 <400> SEQUENCE: 5  
 82 gagacacaga tcagcaaggc caaggc 26  
 85 <210> SEQ ID NO: 6  
 86 <211> LENGTH: 26  
 87 <212> TYPE: DNA

C--> 88 <213> ORGANISM: ARTIFICIAL ✓  
 91 <220> FEATURE:  
 92 <221> NAME/KEY: misc\_feature  
 93 <222> LOCATION: (1)..(26)  
 94 <223> OTHER INFORMATION: DNA Primer ✓  
 97 <400> SEQUENCE: 6  
 98 gccttggcct tgctgatctg tgtctc 26  
 101 <210> SEQ ID NO: 7  
 102 <211> LENGTH: 21  
 103 <212> TYPE: DNA

C--> 104 <213> ORGANISM: ARTIFICIAL ✓  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: misc\_feature  
 109 <222> LOCATION: (1)..(21)  
 110 <223> OTHER INFORMATION: ARTIFICIAL PEPTIDE  
 113 <400> SEQUENCE: 7  
 114 ttgtgtgaat tcaggaggaa t  
 117 <210> SEQ ID NO: 8  
 118 <211> LENGTH: 67  
 119 <212> TYPE: DNA

C--> 120 <213> ORGANISM: ARTIFICIAL ✓  
 123 <220> FEATURE:  
 124 <221> NAME/KEY: misc\_feature  
 125 <222> LOCATION: (1)..(67)  
 126 <223> OTHER INFORMATION: DNA Primer ✓  
 129 <400> SEQUENCE: 8  
 130 cggggagtgg gactctaccc tccctaggga cgtagtataa gacctacgtg tcttttacca 60  
 132 cacctta 67  
 135 <210> SEQ ID NO: 9  
 136 <211> LENGTH: 22  
 137 <212> TYPE: PRT

C--> 138 <213> ORGANISM: ARTIFICIAL ✓  
 141 <220> FEATURE:  
 142 <221> NAME/KEY: misc\_feature  
 143 <222> LOCATION: (1)..(22)  
 144 <223> OTHER INFORMATION: Fusion protein ✓  
 147 <400> SEQUENCE: 9  
 149 Pro Leu Thr Leu Arg Trp Glu Gly Ser Leu His His Ile Leu Asp Ala  
 150 1 5 10 15

✓ DNA is by definition a nucleotide sequence

you have entered artificial peptide sequence and have failed to describe your artificial nucleotide sequence in field 223.

## RAW SEQUENCE LISTING

DATE: 08/15/2001

PATENT APPLICATION: US/09/700,158

TIME: 07:36:46

Input Set : A:\Seq.txt

Output Set: N:\CRF3\08132001\I700158.raw

152	Gln	Lys	Met	Val	Trp	Asn
153				20		

## VERIFICATION SUMMARY

DATE: 08/15/2001

PATENT APPLICATION: US/09/700,158

TIME: 07:36:47

Input Set : A:\Seq.txt

Output Set: N:\CRF3\08132001\I700158.raw

L:44 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:72 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:88 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:104 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:120 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8 *ok*  
L:138 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9